

NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

NOTES OFFICE 000

It is necessary that Form C-104 be approved before this form can be approved and an initial allowable be assigned to any completed Oil or Gas well. Submit this form in QUADRUPPLICATE.

1963 APR 4 AM 7:50

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION
TO TRANSPORT OIL AND NATURAL GAS

Company or Operator Quadruple Pump Station Lease Quadruple

Address Quadruple Pump Station (Local or Field Office) (Principal Place of Business)

Unit 1, Well(s) No. 1, Sec. 1, T. 23, R. 23, Pool Quadruple

County Santa Fe Kind of Lease: Santa Fe

If Oil well Location of Tanks Quadruple Pump Station

Authorized Transporter Quadruple Pump Station Address of Transporter

Quadruple Pump Station (Local or Field Office) (Principal Place of Business)

Per cent of Oil or Natural Gas to be Transported 100% Other Transporters authorized to transport Oil or Natural Gas

from this unit are None

REASON FOR FILING: (Please check proper box)

NEW WELL ☐ CHANGE IN OWNERSHIP ☐

CHANGE IN TRANSPORTER ☐ OTHER (Explain under Remarks) ☐

REMARKS:

The undersigned certifies that the Rules and Regulations of the Oil Conservation Commission have been complied with.

Executed this the 4 day of April, 1963

Approved W. L. Armstrong, 1963

OIL CONSERVATION COMMISSION

By W. L. Armstrong

Title Commissioner

By W. L. Armstrong

Title Commissioner

(See Instructions on Reverse Side)

INSTRUCTIONS

This form shall be executed and filed in QUADRUPLET with the District Office of the Oil Conservation Commission, covering each unit from which oil or gas is produced. A separate certificate shall be filed for each transporter authorized to transport oil or gas from a unit. After said certificate has been approved by the Oil Conservation Commission, one copy shall be forwarded to the transporter, one copy retained to the producer, and two copies retained by the Oil Conservation Commission.

A new certificate shall be filed to cover each change in operating ownership and each change in the transporter, except that in the case of a temporary change in the transporter involving less than the allowable production for one proration period, the operator shall in lieu of filing a new certificate notify the Oil Conservation Commission District Office, and the transporter authorized by certificate on file with the Commission, by letter of the estimated amount of oil or gas to be moved by the transporter temporarily moving oil or gas from the unit and the name of such temporary transporter and a copy of such notice shall also be furnished such temporary transporter. Such temporary transporter shall not move any more oil or gas than the estimated amount shown in said notice.

This certificate when properly executed and approved by the Oil Conservation Commission shall constitute a permit for pipe line connection and authorization to transport oil and gas from the property named therein and shall remain in full force and effect until

- (a) Operating ownership changes
- (a) The transporter is changed or
- (c) The permit is cancelled by the Commission.

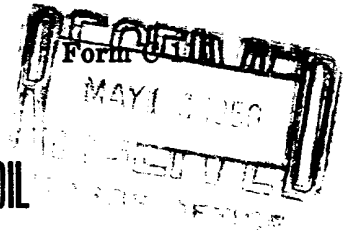
If any of the rules and regulations of the Oil Conservation Commission have not been complied with at the same time this report is filed, explain fully under the heading "REMARKS."

In all cases where this certificate is filed to cover a change in operating ownership or a change in the transporter designated to move oil or gas, show under "REMARKS" the previous owner or operator and the transporter previously authorized to transport oil or gas.

A separate report shall be filed to cover each producing unit as designated by the Oil Conservation Commission.

OIL CONSERVATION COMMISSION
STATE OF NEW MEXICO

CERTIFICATE of COMPLIANCE and AUTHORIZATION to TRANSPORT OIL



Company or Operator Cooperative Producing Ass'n. Lease Malco State "F"
Address P. O. Box 978 Levelland, Texas
(Local or Field Office) (Principal Place of Business)
Unit G Wells No. 1 Sec. 1 T. 13S R. 31E Field Caprock County Chaves
Kind of Lease Oil & Gas Location of Tanks SW 1/4 NE 1/4 1-13-31
Transporter Service Pipe Line Company Address of Transporter P. O. Box 591
(Local or Field Office)
Tulsa, Oklahoma Percent of oil to be transported 100 Other transporters author-
(Principal Place of Business) (None) ized to transport oil from this unit are _____ %
REMARKS:

Formerly transported by Stanalind Pipe Line Company

The undersigned certifies that the rules and regulations of the Oil Conservation Commission have been complied with except as noted above and that gathering agent is authorized to transport the percentages of oil produced from the above described property and that this authorization will be valid until further notice to the transporter named herein or until cancelled by the Oil Conservation Commission of New Mexico.

Executed this the 10th day of May, 1945

COOPERATIVE PRODUCING ASSOCIATION

(Company or Operator)

By J. O. Denton, Jr.

Title Assistant Treasurer

State of Texas

County of Hockley

ss.

Before me, the undersigned authority, on this day personally appeared J. O. Denton, Jr. known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on oath states that he is authorized to make this report and has knowledge of the facts stated herein and that said report is true and correct.

Subscribed and sworn to before me, this the 10th day of May, 1945

Mary Wolfe

Mary Wolfe, Notary Public
Hockley County, Texas

Notary Public in and for Hockley County,

Approved: May - 17 - 1945

OIL CONSERVATION COMMISSION

By W. O. J. J. J. J.

(See Instructions on Reverse Side)

OIL & GAS INSPECTOR

INSTRUCTIONS

This form shall be executed and filed in quadruplicate with the Oil Conservation Commission at Santa Fe, New Mexico, covering each unit from which oil is produced. A separate certificate shall be filed for each transporter authorized to transport oil from a unit. After said certificate has been approved by the Oil Conservation Commission, one copy shall be forwarded to the transporter, one copy returned to the producer, and two copies retained by the Oil Conservation Commission.

A new certificate shall be filed to cover each change in operating ownership and each change in the transporter, except that in the case of a temporary change in the transporter involving less than the allowable production for one month the operator shall in lieu of filing a new certificate, notify the Oil Conservation Commission at Santa Fe, New Mexico, and the transporter authorized by certificate on file with the Commission, by letter of the estimated amount of oil to be moved by the transporter temporarily moving oil from the unit and the name of such temporary transporter and a copy of such notice shall also be furnished such temporary transporter. Such temporary transporter shall not move any more oil than the estimated amount shown in said notice.

This certificate when properly executed and approved by the Oil Conservation Commission shall constitute a permit for pipe line connection and authorization to transport oil from the property named therein and shall remain in full force and effect until

- (a) Operating ownership changes
- (b) The transporter is changed or
- (c) The permit is cancelled by the Commission.

If any of the rules and regulations of the Oil Conservation Commission have not been complied with at the same time this report is filed, explain fully under the heading "REMARKS."

In all cases where this certificate is filed to cover a change in operating ownership or a change in the transporter designated to move oil, show under "REMARKS" the previous owner or operator and the transporter previously authorized to transport oil.

A separate report shall be filed to cover each producing unit as designated by the Oil Conservation Commission.

OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

MISCELLANEOUS REPORTS ON WELLS

Submit this report in triplicate to the Oil Conservation Commission or its proper agent within ten days after the work specified is completed. It should be signed and sworn to before a notary public for reports on beginning drilling operations, results of shooting well, results of test of casing shut off, result of plugging of well, and other important operations, even though the work was witnessed by an agent of the Commission. Reports on minor operations need not be signed and sworn to before a notary public. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of report by checking below.

REPORT ON BEGINNING DRILLING OPERATIONS		REPORT ON REPAIRING WELL	
REPORT ON RESULT OF SHOOTING OR CHEMICAL TREATMENT OF WELL	XX	REPORT ON PULLING OR OTHERWISE ALTERING CASING	
REPORT ON RESULT OF TEST OF CASING SHUT-OFF		REPORT ON DEEPENING WELL	XX
REPORT ON RESULT OF PLUGGING OF WELL			

February 20, 1949

Levelland, Texas

Date

Place

OIL CONSERVATION COMMISSION,
SANTA FE, NEW MEXICO
Gentlemen:

Following is a report on the work done and the results obtained under the heading noted above at the _____

Cooperative Producing Association, State "E" Well No. 1 in the

Company or Operator Lease
SW - NE of Sec. 1, T13, R. 31, N. M. P. M.,
Caprock Field, Chaves County.

The dates of this work were as follows: 1-16-49 to 2-17-49

Notice of intention to do the work was (was not) submitted on Form C-102 on 12-24 1949

and approval of the proposed plan was (was not) obtained. (Cross out incorrect words.)

DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

Cable tools moved in 1-3-49. Cleaning out and drilling started 1-4-49.
Reached total depth of 3035.
Shot with 50 qts. solidified gelatin from 3015 to 3035.
Tamped with pea gravel from 3002 to 3015.
Dumped eight sacks Cal-Seal from 2950 to 3002.
Filled hole with oil. Shot at 8:AM 1-16-49.
Cleaned out to total depth. Run tubing and rods, started to pumping.
Production first 24 hrs. was 45 barrels.

Witnessed by _____
Name Company Title

Subscribed and sworn before me this _____
11th day of March 1949

Mary Wolfe
Mary Wolfe Notary Public

I hereby swear or affirm that the information given above is true and correct

Name J. O. Denton, Jr.
Position General Manager

Representing Cooperative Producing Ass'n.
Company or Operator

My commission expires 6-1-49

Address P. O. Box 278, Levelland, Texas

Remarks:

APPROVED

MAR 11 1949

Roy O. Yorkhaugh
Name
Title

NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

MISCELLANEOUS NOTICES

Submit this notice in triplicate to the Oil Conservation Commission or its proper agent before the work specified is to begin. A copy will be returned to the sender on which will be given the approval, with any modifications considered advisable, or the rejection by the Commission or agent, of the plan submitted. The plan as approved should be followed, and work should not begin until approval is obtained. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of notice by checking below:

NOTICE OF INTENTION TO TEST CASING SHUT-OFF		NOTICE OF INTENTION TO SHOOT OR CHEMICALLY TREAT WELL	X
NOTICE OF INTENTION TO CHANGE PLANS		NOTICE OF INTENTION TO PULL OR OTHERWISE ALTER CASING	
NOTICE OF INTENTION TO REPAIR WELL		NOTICE OF INTENTION TO PLUG WELL	
NOTICE OF INTENTION TO DEEPEN WELL	X		

Levelland, Texas

Place

December 24, 1948

Date

OIL CONSERVATION COMMISSION,
Santa Fe, New Mexico.

Gentlemen:

Following is a notice of intention to do certain work as described below at the Cooperative
Producing Association Malco State Wm Well No. 1 in SW/4 NE/4
Company or Operator Lease
of Sec. 1, T. 13S, R. 31E, N. M. P. M., Caprock Field.
Chaves County.

FULL DETAILS OF PROPOSED PLAN OF WORK

FOLLOW INSTRUCTIONS IN THE RULES AND REGULATIONS OF THE COMMISSION

Intend to drill all sand, shoot well and clean out to total depth.

Approved Jan 7 1949
except as follows:

OIL CONSERVATION COMMISSION,
By Roy Yankovich
Title _____

COOPERATIVE PRODUCING ASSOCIATION

Company or Operator
By J. O. DENTON, JR.
Position General Manager
Send communications regarding well to
Name Cooperative Producing Association
Address P.O. Box 978
Levelland, Texas

10/10/2020

OIL CONSERVATION COMMISSION
STATE OF NEW MEXICO

CERTIFICATE of COMPLIANCE and AUTHORIZATION to TRANSPORT OIL

Company or Operator Cooperative Producing Ass'n Lease Malco State "E"
 Address P. O. Box # 978 Levelland, Texas
(Local or Field Office) (Principal Place of Business)
 Unit 6 Wells No. 1 Sec. 1 T 13S R 31E Field Caprock County Chaves
 Kind of Lease Oil & Gas Location of Tanks SW 1/4 NE 1/4 1-13-31
 Transporter Stanolind Pipe Line Co Address of Transporter P. O. Box # 591
(Principal Place of Business) (Local or Field Office)
Tulsa, Oklahoma Percent of oil to be transported 100 Other transporters author-
 ized to transport oil from this unit are (None) %
 REMARKS:

This Authorization to become effective September 1st, 1947

The undersigned certifies that the rules and regulations of the Oil Conservation Commission have been complied with except as noted above and that gathering agent is authorized to transport the percentage of oil produced from the above described property and that this authorization will be valid until further notice to the transporter named herein or until cancelled by the Oil Conservation Commission of New Mexico.

Executed this the 29th day of August, 1947

Cooperative Producing Ass'n
(Company or Operator)

By [Signature]
 Title Assistant Treasurer

State of Texas
 County of Hockley

ss.

Before me, the undersigned authority, on this day personally appeared J. O. Denton, Jr. known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on oath states that he is authorized to make this report and has knowledge of the facts stated herein and that said report is true and correct.

Subscribed and sworn to before me, this the 29th day of August, 1947

[Signature]

Notary Public in and for Hockley County,

DAPHNA MENEFEE

Approved: Aug - 31 1947

OIL CONSERVATION COMMISSION

By [Signature]

(See Instruction on Reverse Side)

INSTRUCTIONS

This form shall be executed and filed in quadruplicate with the Oil Conservation Commission at Santa Fe, New Mexico, covering each unit from which oil is produced. A separate certificate shall be filed for each transporter authorized to transport oil from a unit. After said certificate has been approved by the Oil Conservation Commission, one copy shall be forwarded to the transporter, one copy returned to the producer, and two copies retained by the Oil Conservation Commission.

A new certificate shall be filed to cover each change in operating ownership and each change in the transporter, except that in the case of a temporary change in the transporter involving less than the allowable production for one month the operator shall in lieu of filing a new certificate, notify the Oil Conservation Commission at Santa Fe, New Mexico, and the transporter authorized by certificate on file with the Commission, by letter of the estimated amount of oil to be moved by the transporter temporarily moving oil from the unit and the name of such temporary transporter and a copy of such notice shall also be furnished such temporary transporter. Such temporary transporter shall not move any more oil than the estimated amount shown in said notice.

This certificate when properly executed and approved by the Oil Conservation Commission shall constitute a permit for pipe line connection and authorization to transport oil from the property named therein and shall remain in full force and effect until

- (a) Operating ownership changes
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If any of the rules and regulations of the Oil Conservation Commission have not been complied with at the same time this report is filed, explain fully under the heading "REMARKS."

In all cases where this certificate is filed to cover a change in operating ownership or a change in the transporter designated to move oil, show under "REMARKS" the previous owner or operator and the transporter previously authorized to transport oil.

A separate report shall be filed to cover each producing unit as designated by the Oil Conservation Commission.

**OIL CONSERVATION COMMISSION
STATE OF NEW MEXICO**

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION TO TRANSPORT OIL

Company or Operator Cooperative Producing Association Lease Malco "E"
 Address P. O. Box 978, Levelland, Texas.
(Local or Field Office) (Principal Place of Business)
 Unit G Wells No. 1 Sec. 1 T13S R31E Field Caprock County Chaves
 Kind of Lease Oil & Gas Location of Tanks SW 1/4 NE 1/4 1-13-31
 Transporter Malco Refineries, Inc. Address of Transporter Roswell,
New Mexico (Local or Field Office)
New Mexico (Principal Place of Business) Percent of oil to be transported 100 Other transporters author-
 ized to transport oil from this unit are (None) %

REMARKS:

**Formerly owned by Malco Refineries, Inc., and formerly
transported by the same.**

The undersigned certifies that the rules and regulations of the Oil Conservation Commission have been complied with except as noted above and that gathering agent is authorized to transport the percentage of oil produced from the above described property and that this authorization will be valid until further notice to the transporter named herein or until cancelled by the Oil Conservation Commission of New Mexico.

Executed this the 27th day of September, 1946.

Cooperative Producing Association

(Company or Operator)

By [Signature]

Title Assistant Treasurer

State of TEXAS
 County of HOCKLEY } ss.

Before me, the undersigned authority, on this day personally appeared J. O. Denton, Jr. known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on oath states that he is authorized to make this report and has knowledge of the facts stated herein and that said report is true and correct.

Subscribed and sworn to before me, this the 27th day of September, 1946

Notary Public in and for Hockley County, C. L. MILES

Approved: [Signature] 1946
 OIL CONSERVATION COMMISSION

By [Signature]

(See Instruction on Reverse Side)

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A separate report shall be filed to cover each producing unit as designated by the Oil Conservation Commission.

Place Artesia, New Mexico

Date October 31, 1945

Designate UNIT well is located
in _____

MAIL TO:

Glenn Staley
Proration Office
Hobbs, New Mexico

D	E	B	A
F	G	H	I
L	K	J	P
M	N	O	P

NOTICE OF COMPLETION OF (Lease) _____ State "E"

Sec. 1 Twsp. 13 RGE. 31 Well No. 1 1980 feet from
N. line; 1980 feet from Eastline:

DATE STARTED October 7, 1945

DATE COMPLETED October 21, 1945

ELEVATION 4407

TOTAL DEPTH S.L.M. 3034

CABLE TOOLS _____ ROTARY TOOLS 0 - 3034

CASING RECORD

SIZE <u>8-5/8</u>	DEPTH <u>312</u>	SAX CEMENT <u>150</u>
SIZE <u>5-1/2</u>	DEPTH <u>2999</u>	SAX CEMENT <u>600</u>

TUBING RECORD

SIZE 2 DEPTH 3024

ACID RECORD

NO. GALS. None

SHOT RECORD

NO. QTS. None

FORMATION TOPS

Anhydrite	<u>1470</u>
Top salt	<u>1549</u>
Base salt	<u>2170</u>
Red Sand	<u>3026</u>
Brown lime	_____
White lime	_____
Oil or gas pay	<u>3026-34</u>
Water	_____

Initial Production Test 200 Pumping --- Flowing 1 hour

Test after acid or shot Natural Well

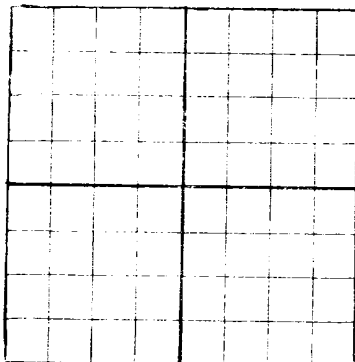
INITIAL GAS VOLUME _____

Copy

N

NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

AREA 640 ACRES
LOCATE WELL CORRECTLY

WELL RECORD

Mail to Oil Conservation Commission, Santa Fe, New Mexico, or its proper agent not more than twenty days after completion of well. Follow instructions in the Rules and Regulations of the Commission. Indicate questionable data by following it with (?). SUBMIT IN TRIPLICATE. FORM C-110 WILL NOT BE APPROVED UNTIL FORM C-105 IS PROPERLY FILLED OUT.

Malco Refineries, Inc. **Artesia** **New Mexico**
Company or Operator Address
State E Well No. **1** in **SW 1/4** of Sec. **1**, T. **13**
R. **31** N. M. P. M. **Caprock** Field, **Chaves** County.
Well is **1980** feet south of the North line and **1980** feet west of the East line of **Section 1**.
If State land the oil and gas lease is No. **39185** Assignment No. **1**
If patented land the owner is _____ Address _____
If Government land the permittee is _____ Address _____
The Lessee is **Malco Refineries, Inc.** Address **Artesia**
Drilling commenced **Oct. 7** 19 **45** Drilling was completed **October 21** 19 **45**
Name of drilling contractor **Geo. P. Livermore, Inc.** Address **Lubbock, Texas**
Elevation above sea level at top of casing **4400** feet. **Derrick Floor Elev. 4407**
The information given is to be kept confidential until **Not confidential** 19 ____

OIL SANDS OR ZONES

No. 1, from **3026** to **3034** No. 4, from _____ to _____
No. 2, from _____ to _____ No. 5, from _____ to _____
No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from _____ to _____ feet. _____
No. 2, from _____ to _____ feet. _____
No. 3, from _____ to _____ feet. _____
No. 4, from _____ to _____ feet. _____

CASING RECORD

SIZE	WEIGHT PER FOOT	THREADS PER INCH	MAKE	AMOUNT	KIND OF SHOE	CUT & FILLED FROM	PERFORATED		PURPOSE
							FROM	TO	
8 5/8	28	8		312					Oil String
8 1/2	15	10V		2999					

MUDDING AND CEMENTING RECORD

SIZE OF HOLE	SIZE OF CASING	WHERE SET	NO. SACKS OF CEMENT	METHOD USED	MUD GRAVITY	AMOUNT OF MUD USED
11	8 5/8	312	150	Halliburton		
7 7/8	5 1/2	2999	500	"		

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth Set _____
Adapters—Material _____ Size _____

RECORD OF SHOOTING OR CHEMICAL TREATMENT

SIZE	SHELL USED	EXPLOSIVE OR CHEMICAL USED	QUANTITY	DATE	DEPTH SHOT OR TREATED	DEPTH CLEANED OUT

Results of shooting or chemical treatment **None**

RECORD OF DRILL-STEM AND SPECIAL TESTS

If drill-stem or other special tests or deviation surveys were made, submit report on separate sheet and attach hereto.

TOOLS USED

Rotary tools were used from **0** feet to **3034** feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

PRODUCTION

Put to producing **Oct. 21** 19 **45**
The production of the first 24 hours was **200** barrels of fluid of which **100** % was oil; _____ %
emulsion; _____ % water; and _____ % sediment. Gravity, Be **36**
If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____
Rock pressure, lbs. per sq. in. _____

EMPLOYEES

B. R. Allen Driller **Otto Messner** Driller
Gail Willis Driller _____ Driller

FORMATION RECORD ON OTHER SIDE

I hereby swear or affirm that the information given herewith is a complete and correct record of the well and all work done on it so far as can be determined from available records.

Subscribed and sworn to before me this **6th**day of **November** 19 **45****Elsie G. Gorman**

Notary Public

My Commission expires **June 29, 1947**

Place

Date

Name **Vilas P. Sherron**Position **Production Mgr.**Representing **MALCO REFINERIES, INC.**

Company or Operator

Address **Artesia, New Mexico**

FORMATION RECORD

FROM	TO	THICKNESS IN FEET	FORMATION
0	115	115	Sand
115	305	190	Sand, Lime, Shale
305	315	10	Shale
315	540	225	Red Bed
540	950	410	Red Bed and Shale
950	1180	230	Shale & Shells
1180	1468		Red Bed & Sand
1468	1480		Anhydrite
1480	1549		Anhydrite
1549	1710		Salt and Shells
1710	2175		Salt and Shells
2175	2220		Anhydrite
2220	2285		Anhydrite and Shale
2285	2372		Anhydrite
2372	2456		Anhydrite
2456	2590		Anhydrite and Shale
2590	2687		Anhydrite
2687	3000		Anhydrite & Shale
3000	3026		Anhydrite
3026	3034		Red Sand
Total Depth			3034

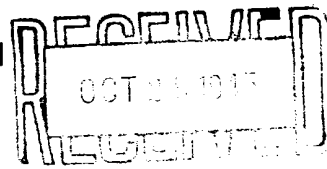
Geological Markers

Top Anhydrite	1470
Top Salt	1549
Base Salt	2170
Red Sand	3026

OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

MISCELLANEOUS REPORTS ON WELLS



Submit this report in triplicate to the Oil Conservation Commission or its proper agent within ten days after the work specified is completed. It should be signed and sworn to before a notary public for reports on beginning drilling operations, results of shooting well, results of test of casing shut-off, result of plugging of well, and other important operations, even though the work was witnessed by an agent of the Commission. Reports on minor operations need not be signed and sworn to before a notary public. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of report by checking below:

REPORT ON BEGINNING DRILLING OPERATIONS		REPORT ON REPAIRING WELL	
REPORT ON RESULT OF SHOOTING OR CHEMICAL TREATMENT OF WELL		REPORT ON PULLING OR OTHERWISE ALTERING CASING	
REPORT ON RESULT OF TEST OF CASING SHUT-OFF	X	REPORT ON DEEPENING WELL	
REPORT ON RESULT OF PLUGGING OF WELL			

Artesia, New Mexico
Place

October 25, 1945
Date

OIL CONSERVATION COMMISSION,
SANTA FE, NEW MEXICO.

Gentlemen:

Following is a report on the work done and the results obtained under the heading noted above at the
Malco Refineries, Inc. State N Well No. 1 in the
 Company or Operator Lease
Sgt. Neg of Sec. 1, T. 13, R. 31, N. M. P. M.,
Cadrock Field, Chaves County.

The dates of this work were as follows:

Notice of intention to do the work was (was not) submitted on Form C-102 on _____ 19____
 and approval of the proposed plan was (was not) obtained. (Cross out incorrect words.)

DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

Tested 5 1/2" OD casing @ 2999'. Drilled plug to 3024' and placed pump pressure of 500#. Held pressure for one hour. Test satisfactory.

Witnessed by John Lawrence George E. Livermore, Inc. Superintendent
 Name Company Title

Subscribed and sworn before me this 25th

day of October, 1945

[Signature]
Notary Public

I hereby swear or affirm that the information given above is true and correct.

Name [Signature]

Position Production Manager

Representing Malco Refineries, Inc.
 Company or Operator

My commission expires April 15, 1946

Address P. O. Box 128, Artesia, New Mex.

Remarks:

[Signature]
Name
Oil & Gas Inspector
Title

X

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1. *Chlorophyll a* and *Chlorophyll b* were determined by the method of Arar and Collins (1971) using a Shimadzu 1601 UV-Visible Spectrophotometer. The concentration of chlorophyll was expressed in $\mu\text{g mL}^{-1}$.

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Abstract

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

1. The first group of respondents (10%) was made up of 100% females, 100% of whom were married. The mean age was 40.5 years, with a range of 30 to 50 years. The mean number of children was 2.5, with a range of 1 to 4 children. The mean number of years of education was 12.5, with a range of 10 to 16 years. The mean number of years of employment was 10.5, with a range of 5 to 20 years. The mean number of years of residence in the community was 10.5, with a range of 5 to 20 years. The mean number of years of residence in the community was 10.5, with a range of 5 to 20 years.

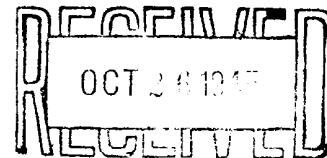
1. The first group of people who are interested in the study of the history of the world are the historians. They are people who study the past and write about it. They are interested in the events that have shaped the world and the people who have lived through them. They are also interested in the changes that have taken place over time and the reasons for these changes.

100

NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

MISCELLANEOUS NOTICES



HOBBS OFFICE

Submit this notice in triplicate to the Oil Conservation Commission or its proper agent before the work specified is to begin. A copy will be returned to the sender on which will be given the approval, with any modifications considered advisable, or the rejection by the Commission or agent, of the plan submitted. The plan as approved should be followed, and work should not begin until approval is obtained. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of notice by checking below:

NOTICE OF INTENTION TO TEST CASING SHUT-OFF	<input checked="" type="checkbox"/>	NOTICE OF INTENTION TO SHOOT OR CHEMICALLY TREAT WELL	
NOTICE OF INTENTION TO CHANGE PLANS		NOTICE OF INTENTION TO PULL OR OTHERWISE ALTER CASING	
NOTICE OF INTENTION TO REPAIR WELL		NOTICE OF INTENTION TO PLUG WELL	
NOTICE OF INTENTION TO DEEPEN WELL			

Artesia, New Mexico

October 18, 1945

Place

Date

OIL CONSERVATION COMMISSION,
Santa Fe, New Mexico.

Gentlemen:

Following is a notice of intention to do certain work as described below at the

Malco Refineries, Inc. State "E" Well No. 1 in S. 4 NE 4
Company or Operator Lease
of Sec. 1, T. 13, R. 31, N. M. P. M., Caprock Field,
Chaves County.

FULL DETAILS OF PROPOSED PLAN OF WORK

FOLLOW INSTRUCTIONS IN THE RULES AND REGULATIONS OF THE COMMISSION

5 - 1/2" O.D. casing was set at 2,999 feet and cemented with 600 sacks bulk cement
Plug stopping at 2,970 feet. Plug on bottom at 12:30 p.m., October 17th.
Pressure will be held on casing for 48 hours.

This notice is our intention to test casing after drilling plug by holding
500# pressure on it for 30 minutes.

Approved OCT 26 1945, 19____
except as follows:

OIL CONSERVATION COMMISSION
By Roll Yarbrough
Title Oil & Gas Inspector

Malco Refineries, Inc.

Company or Operator

By

Vilas P. Sherson

Position

Production Manager

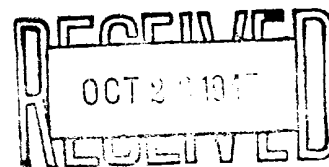
Send communications regarding well to

Name Malco Refineries, Inc.Address P. O. Box 128Artesia, New Mexico

OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

MISCELLANEOUS REPORTS ON WELLS



HOES OFFICE

Submit this report in triplicate to the Oil Conservation Commission or its proper agent within ten days after the work specified is completed. It should be signed and sworn to before a notary public for reports on beginning drilling operations, results of shooting well, results of test of casing shut-off, result of plugging of well, and other important operations, even though the work was witnessed by an agent of the Commission. Reports on minor operations need not be signed and sworn to before a notary public. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of report by checking below:

REPORT ON BEGINNING DRILLING OPERATIONS		REPORT ON REPAIRING WELL	
REPORT ON RESULT OF SHOOTING OR CHEMICAL TREATMENT OF WELL		REPORT ON PULLING OR OTHERWISE ALTERING CASING	
REPORT ON RESULT OF TEST OF CASING SHUT-OFF	X	REPORT ON DEEPENING WELL	
REPORT ON RESULT OF PLUGGING OF WELL			

Artesia, New Mexico

October 9, 1945

Place

Date

OIL CONSERVATION COMMISSION,
SANTA FE, NEW MEXICO.

Gentlemen:

Following is a report on the work done and the results obtained under the heading noted above at the

Malco Refineries, Inc. State "E" Well No. 1 in the
Company or Operator Lease
SW 1/4 NE 1/4 of Sec. 1, T. 13, R. 31, N. M. P. M.,
Caprock Field, Chaves County.

The dates of this work were as follows: October 9, 1945

Notice of intention to do the work was (~~was not~~) submitted on Form C-102 on October 8, 19 45
and approval of the proposed plan was (was not) obtained. (Cross out incorrect words.)

DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

Tested 8-5/8" O.D. casing set at 31 feet with 500# pump pressure held for 30 minutes. Test was satisfactory.

Witnessed by John Lawrence George Livermore, Inc. Superintendent
Name Company Title

Subscribed and sworn before me this 19thday of October, 19 45

Notary Public

I hereby swear or affirm that the information given above is true and correct.

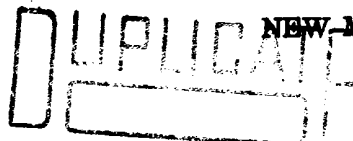
Name Vilas P. SheehanPosition Production ManagerRepresenting Malco Refineries, Inc.
Company or Operator

My commission expires _____

Address P. O. Box 128, Artesia, New Mex.

Remarks:

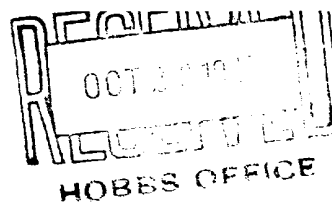
Nov. 1945
Name
Title



NEW MALCO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

MISCELLANEOUS NOTICES



Submit this notice in triplicate to the Oil Conservation Commission or its proper agent before the work specified is to begin. A copy will be returned to the sender on which will be given the approval, with any modifications considered advisable, or the rejection by the Commission or agent, of the plan submitted. The plan as approved should be followed, and work should not begin until approval is obtained. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of notice by checking below:

NOTICE OF INTENTION TO TEST CASING SHUT-OFF	<input checked="" type="checkbox"/>	NOTICE OF INTENTION TO SHOOT OR CHEMICALLY TREAT WELL	
NOTICE OF INTENTION TO CHANGE PLANS		NOTICE OF INTENTION TO PULL OR OTHERWISE ALTER CASING	
NOTICE OF INTENTION TO REPAIR WELL		NOTICE OF INTENTION TO PLUG WELL	
NOTICE OF INTENTION TO DEEPEN WELL			

Artesia, New Mexico

October 8, 1945

Place

Date

OIL CONSERVATION COMMISSION,
Santa Fe, New Mexico.

Gentlemen:

Following is a notice of intention to do certain work as described below at the

Malco Refineries, Inc.

State "E"

Well No. 1 in SW 1/4 NE 1/4

Company or Operator

Lease

of Sec. 1, T. 13, R. 31, N. M. P. M., Caprock Field,
Chaves County.

FULL DETAILS OF PROPOSED PLAN OF WORK

FOLLOW INSTRUCTIONS IN THE RULES AND REGULATIONS OF THE COMMISSION

8-5/8" O.D. casing run at 311 feet - Cemented with 150 sacks - Plug stopped at 289 feet. We propose to test casing by holding pump pressure of 500# on casing for 30 minutes.

Approved _____, 19____
except as follows:

OIL CONSERVATION COMMISSION,
By Roy Yarbrough
Title Oil & Gas Inspector

Malco Refineries, Inc.

Company or Operator

By

Position

Production Manager

Send communications regarding well to

Name Malco Refineries, Inc.

Address P. O. Box 128

Artesia, New Mexico

1. The first part of the paper is devoted to a discussion of the

2. The second part of the paper is devoted to a discussion of the

3. The third part of the paper is devoted to a discussion of the

4. The fourth part of the paper is devoted to a discussion of the

5. The fifth part of the paper is devoted to a discussion of the

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DUPLICATE

NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

NOTICE OF INTENTION TO DRILL

RECEIVED
OCT 8 1945
RECEIVED

HOBBS OFFICE

Notice must be given to the Oil Conservation Commission or its proper agent and approval obtained before drilling begins. If changes in the proposed plan are considered advisable, a copy of this notice showing such changes will be returned to the sender. Submit this notice in triplicate. One copy will be returned following approval. See additional instructions in Rules and Regulations of the Commission.

Artesia, New Mexico

October 3, 1945

OIL CONSERVATION COMMISSION,
Santa Fe, New Mexico,

PLACE

DATE

Gentlemen:

You are hereby notified that it is our intention to commence the drilling of a well to be known as.....

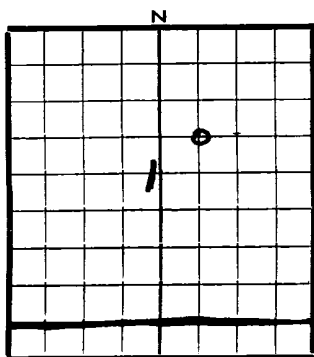
Malco Refineries, Inc., State "E"

Well No. 1 in SW 1/4 NE 1/4

COMPANY OR OPERATOR

LEASE

of Sec. 1, T. 13, R. 31, N. M. P. M., Caprock Field, Chaves County.

AREA 640 ACRES
LOCATE WELL CORRECTLY

The well is 1980 feet (S.) of the North line and 1980 feet (E.) (W.) of the East line of Section 1

(Give location from section or other legal subdivision lines. Cross out wrong directions.)

If state land the oil and gas lease is No. 39155 Assignment No. 1

If patented land the owner is.....

Address

If government land the permittee is.....

Address

The lessee is Malco Refineries, Inc.

Address Artesia, New Mexico

We propose to drill well with drilling equipment as follows: Rotary to set

oil string on top of producing sand - cable tools to drill in

The status of a bond for this well in conformance with Rule 39 of the General Rules and Regulations of the Commission is as follows: Blanket bond filed with N.M.O & G. C.

We propose to use the following strings of casing and to land or cement them as indicated:

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	NEW OR SECOND HAND	DEPTH	LANDED OR CEMENTED	SACKS CEMENT
11	8-5/8	25	New	250	Cemented	125
7-7/8	5-1/2	15	Second hand	3,000	Cemented	600

If changes in the above plan become advisable we will notify you before cementing or landing casing. We estimate that the first productive oil or gas sand should occur at a depth of about 3020 feet.

Additional information:

Approved..... OCT 8 1945, 19.....
Except as follows:

"APPROVAL CONDITIONED UPON
COMPLIANCE WITH REQUIREMENTS
OF OPC-WPB."

OIL CONSERVATION COMMISSION
By Roy Yankovich, Oil & Gas Inspector
Title.....

Sincerely yours,

Malco Refineries, Inc.

COMPANY OR OPERATOR

By

Position Production Department Manager

Send communications regarding well to

Name Malco Refineries, Inc.

Address P. O. Box 128, Artesia, New Mexico

